

t15_trees_3

(TMT7zn5RrQ1bRvQc6BU4x9D1TZgr7E3MdVc)

October 27, 2020

Let $v1_trees_3 : \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_trees_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_trees_3 X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow ((\neg v1_xboole_0 X1) \wedge (v1_trees_1 X1))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2_tarski X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski X0 X1 = k2_tarski X1 X0 \quad (3)$$

Theorem 1

$$\forall X0.\forall X1.(v1_trees_3 (k2_tarski X0 X1)) \Leftrightarrow (((\neg v1_xboole_0 X0) \wedge (v1_trees_1 X0)) \wedge ((\neg v1_xboole_0 X1) \wedge (v1_trees_1 X1)))$$